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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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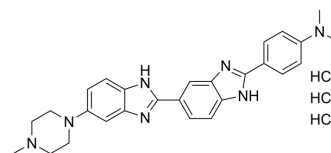
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Hoechst 34580 trihydrochloride

Cat. No.:	HY-15560A
CAS No.:	911004-45-0
Molecular Formula:	C ₂₇ H ₃₂ Cl ₃ N ₇
Molecular Weight:	560.95
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Hoechst 34580 (trihydrochloride) is a biochemical assay reagent.
IC ₅₀ & Target	Amyloid-β ^[1]
In Vitro	Hoechst 34580 prefers to locate near hydrophobic regions with binding affinity with the inhibition constant IC₅₀ of 0.86±0.05 μM for Hoechst 34580. Hoechst 34580 is a good candidate for treating the Alzheimer's disease by inhibiting Aβ formation. 50 μM Aβ₄₂ solutions co-incubated with 100, 25, 12.5, 3.125, 0.78, and 0.1, 0.01 μM Hoechst 34580 at 37 °C for 70 h. Hoechst 34580 can inhibit the aggregation of Aβ₄₂ in a dose-dependent manner. And the half-maximal concentration (IC₅₀) is examined. The IC₅₀ is obtained by measuring the concentration of Hoechst 34580 while maintaining the Aβ₄₂ concentration which gave 0.86±0.05 μM for Hoechst 34580^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Thai NQ, et al. Discovery of DNA dyes Hoechst 34580 and 33342 as good candidates for inhibiting amyloid beta formation: in silico and in vitro study. J Comput Aided Mol Des. 2016 Aug;30(8):639-50.

Caution: Product has not been fully validated for medical applications. For research use only.

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